

# Service information

1983-08-09

Videopac computers  
G7000  
G7200

G83-004

(GB)

It may occur that the electrolytic capacitors mentioned below will no longer function well when they have not been used for more than three months. That is why they will no longer be supplied as service component. The replacing code numbers are given below:

Old	Replacement	Applied in	Item number
4822 124 20776	4822 124 21409	G7000	C207 680 $\mu$ F/16 V
4822 124 21262	4822 124 21408	G7000	C211 4700 $\mu$ F/10 V
4822 124 20776	4822 124 40199	G7200	C194 680 $\mu$ F/10 V
4822 124 21298	4822 124 21412	G7200	C200 470 $\mu$ F/40 V
4822 124 21299	4822 124 21408	G7200	C203 4700 $\mu$ F/10 V

(NL)

Het kan voorkomen dat de onderstaande electrolytische condensatoren niet goed meer zijn als zij langer dan 3 maanden niet gebruikt zijn.

In verband hiermee worden zij niet meer als service onderdeel geleverd.

De vervangende codenrs. zijn hieronder opgegeven:

Oud	Vervanger	Toegepast in	Pos. nummer
4822 124 20776	4822 124 21409	G7000	C207 680 $\mu$ F/16 V
4822 124 21262	4822 124 21408	G7000	C211 4700 $\mu$ F/10 V
4822 124 20776	4822 124 40199	G7200	C194 680 $\mu$ F/10 V
4822 124 21298	4822 124 21412	G7200	C200 470 $\mu$ F/40 V
4822 124 21299	4822 124 21408	G7200	C203 4700 $\mu$ F/10 V

(F)

Il se peut que les condensateurs chimiques dont il est question ci-dessous ne sont plus fiables après 3 mois hors d'utilisation.

Il en résulte qu'ils ne sont plus livrables comme pièces Service.

Les codes de remplacement sont donnés ci-dessous:

Ancien	Remplaçant	Monté dans	No de repère
4822 124 20776	4822 124 21409	G7000	C207 680 $\mu$ F/16 V
4822 124 21262	4822 124 21408	G7000	C211 4700 $\mu$ F/10 V
4822 124 20776	4822 124 40199	G7200	C194 680 $\mu$ F/10 V
4822 124 21298	4822 124 21412	G7200	C200 470 $\mu$ F/40 V
4822 124 21299	4822 124 21408	G7200	C203 4700 $\mu$ F/10 V

(D)

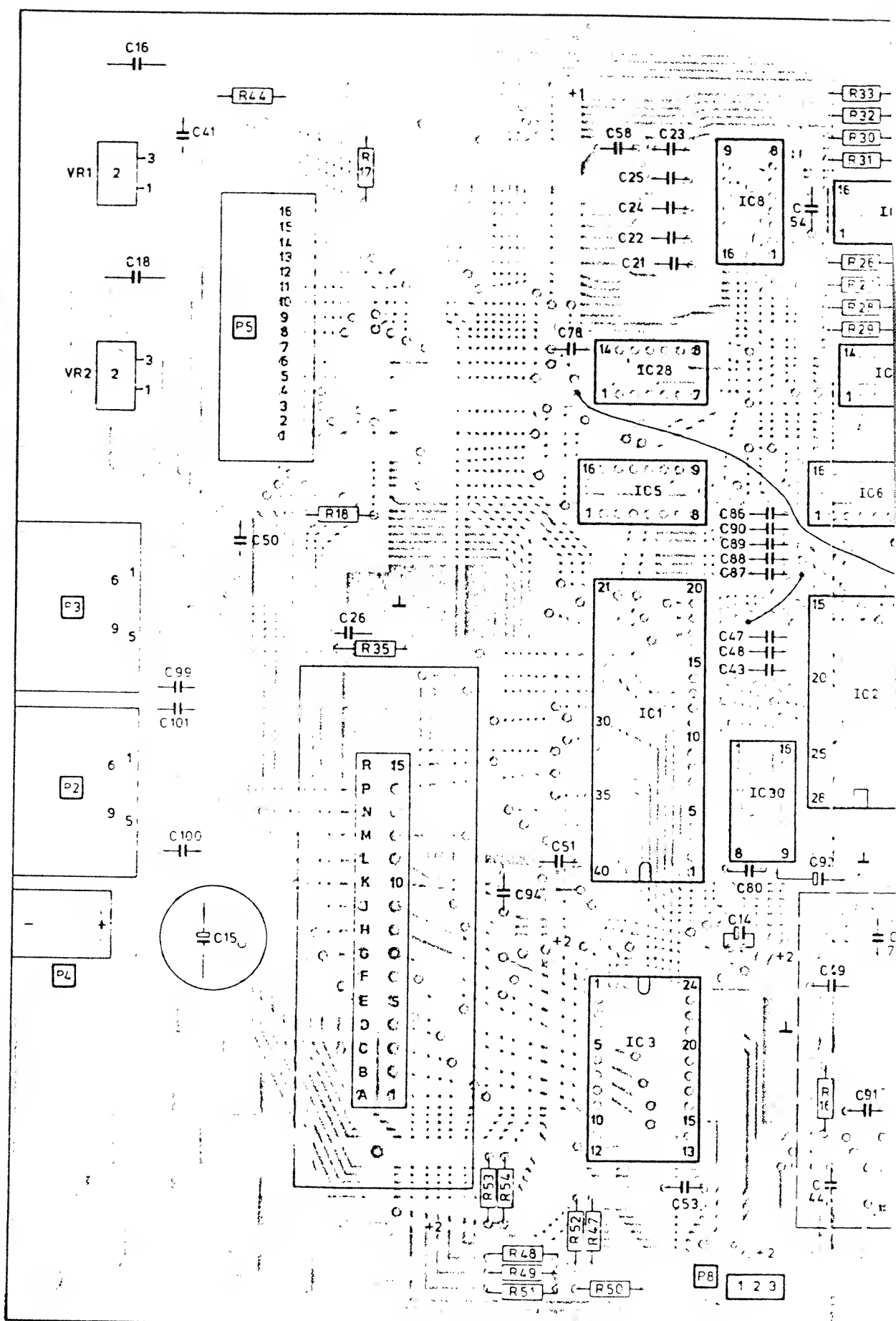
Nachstehend aufgeführte Elektrolytkondensatoren dürften nicht mehr brauchbar sein, wenn sie länger als 3 Monate nicht benutzt worden sind.

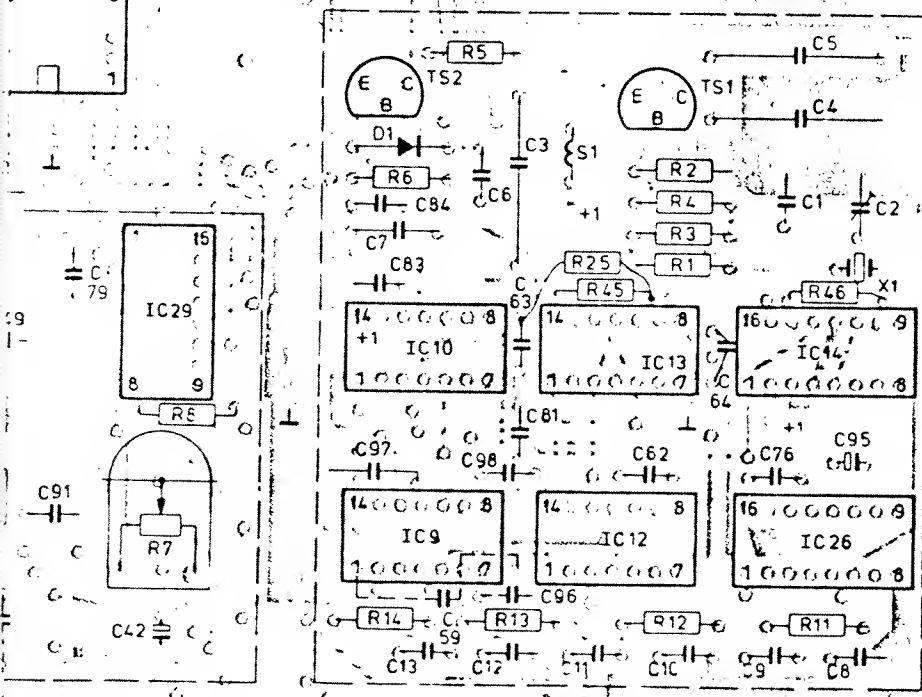
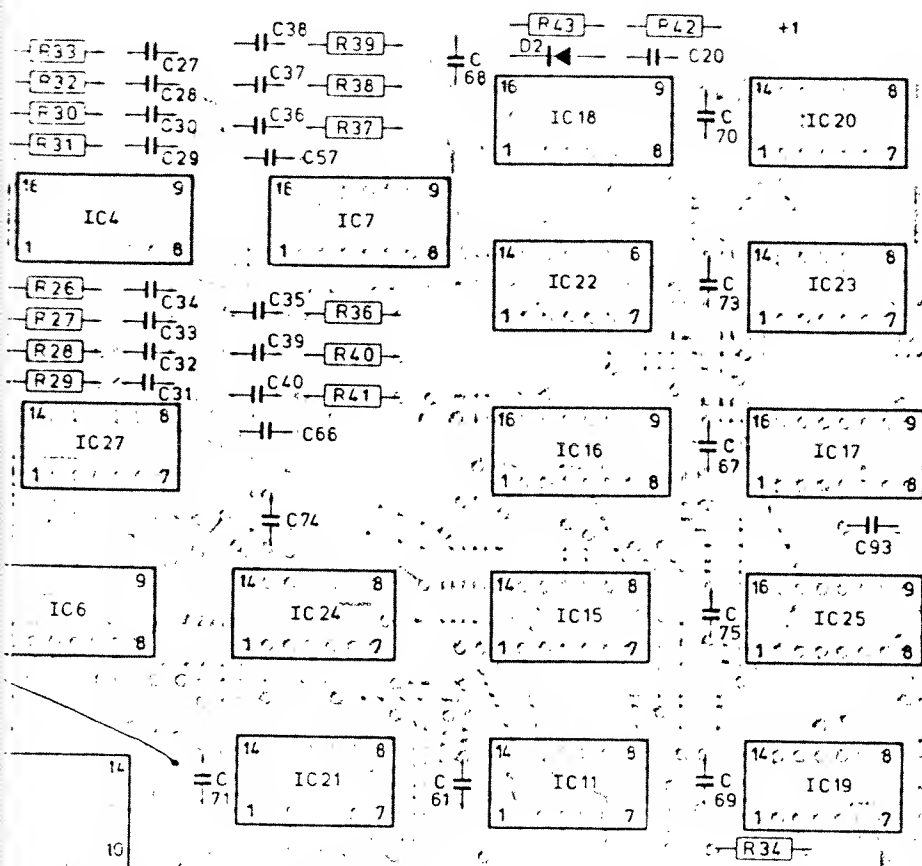
In diesem Zusammenhang werden sie nicht mehr als Serviceteil geliefert.

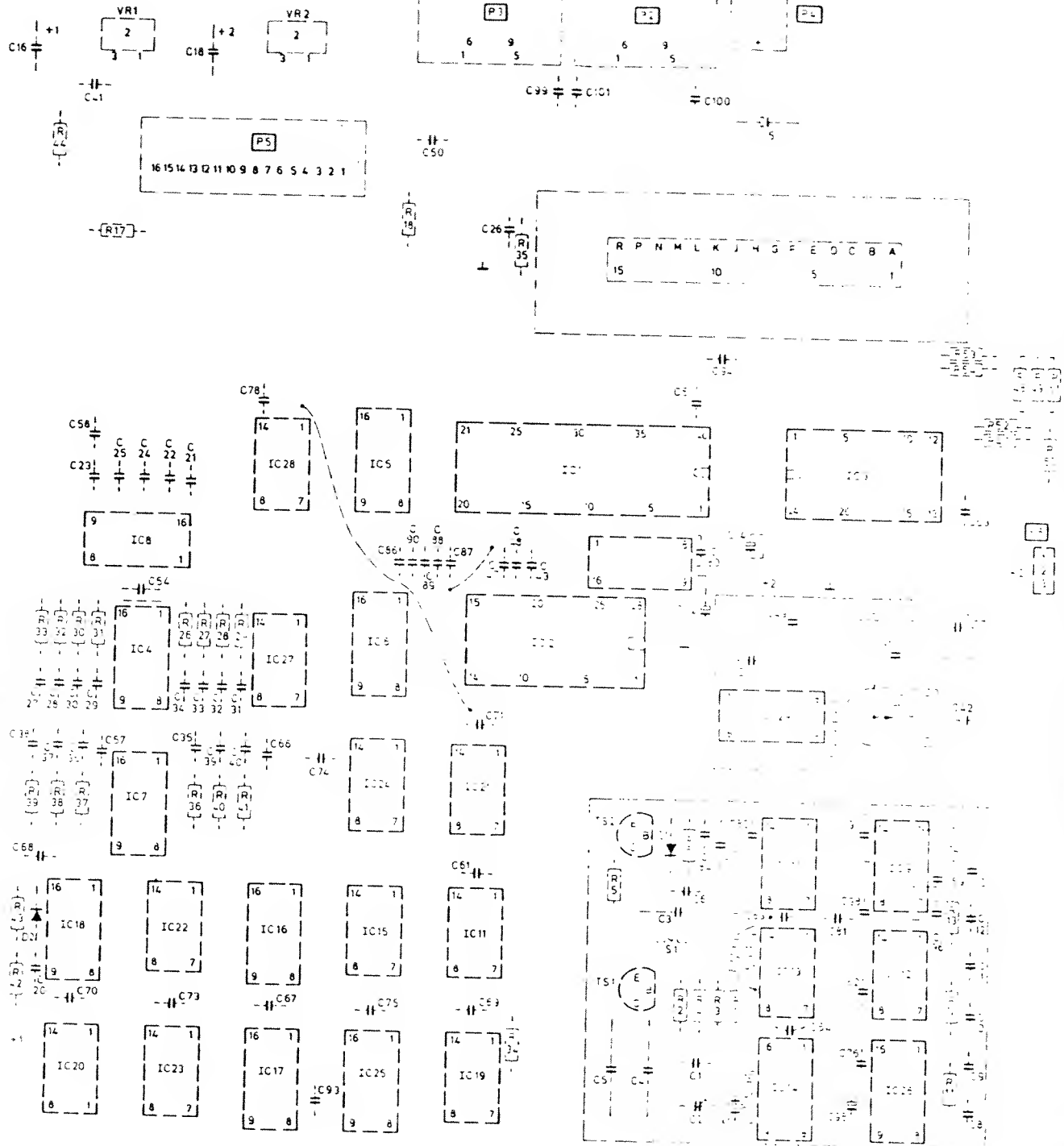
Die Ersatz-Codenummern entnehmen Sie der Tabelle:

Alt	Ersatz-kondensator	Eingebaut in	Pos. Nr.
4822 124 20776	4822 124 21409	G7000	C207 680 $\mu$ F/16 V
4822 124 21262	4822 124 21408	G7000	C211 4700 $\mu$ F/10 V
4822 124 20776	4822 124 40199	G7200	C194 680 $\mu$ F/10 V
4822 124 21298	4822 124 21412	G7200	C200 470 $\mu$ F/40 V
4822 124 21299	4822 124 21408	G7200	C203 4700 $\mu$ F/10 V

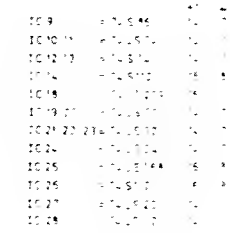
C	F
6	43 42
38	20 39
27	44 33
37	32 33
41	30 17
58	30 17
30	30 17
29	30 17
25	30 17
24	54
22	73
18	26
34	36
33	27 36
32	28 40
78	29 41
31	29 41
66	67
74	93
75	16
86	90
50	89
88	87
26	71
51	69
47	48
43	35 34
101	5
5	5
4	6 2
51	6 2
94	6 2
6	4
84	2
92	80
4	7
15	83
79	63
49	45 46
64	8
81	8
76	95
97	62
94	98
16	7
96	52 47
59	42
53	44
8...13	53 54
52	47
48	48
49	49
51	50

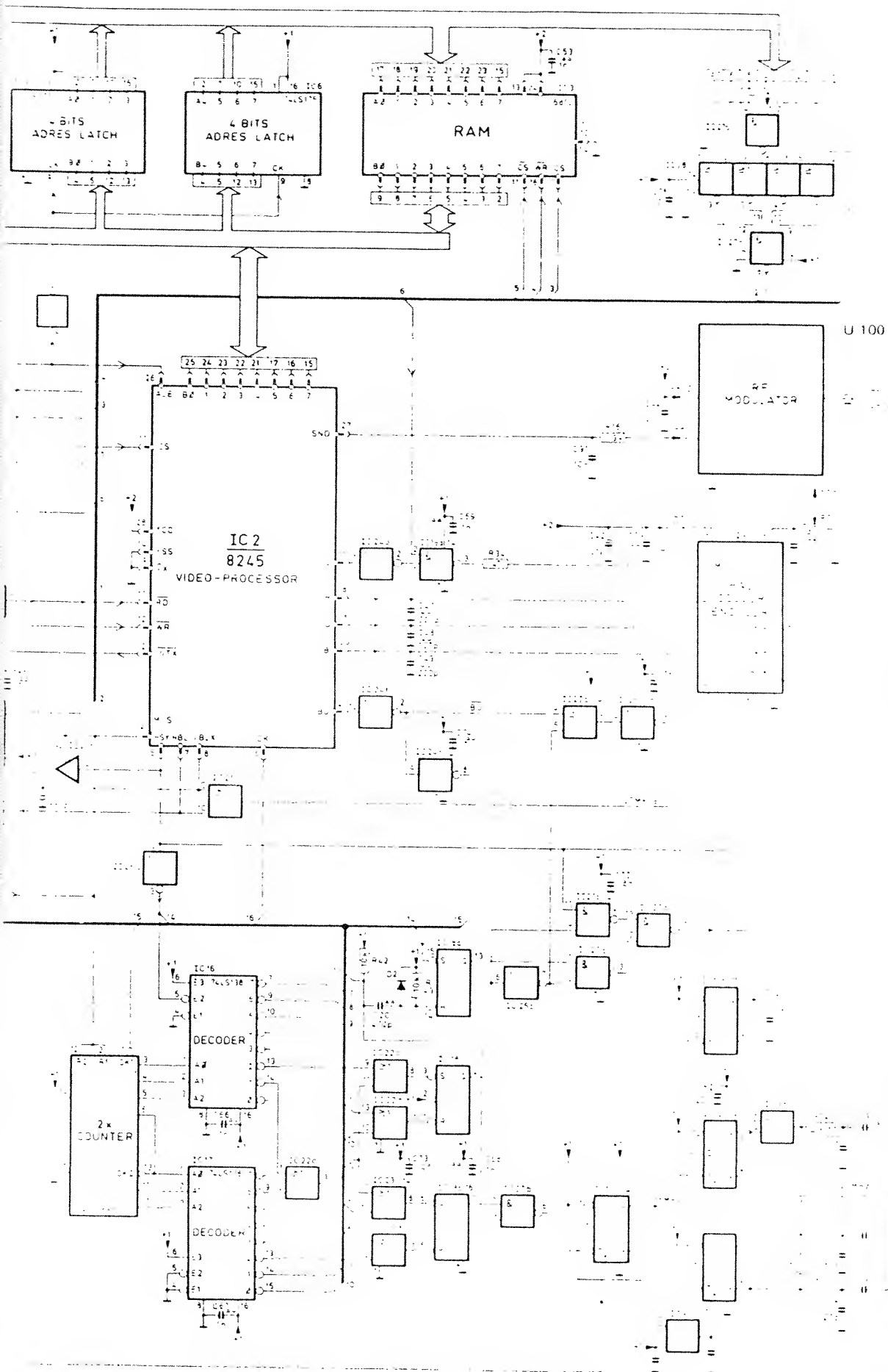


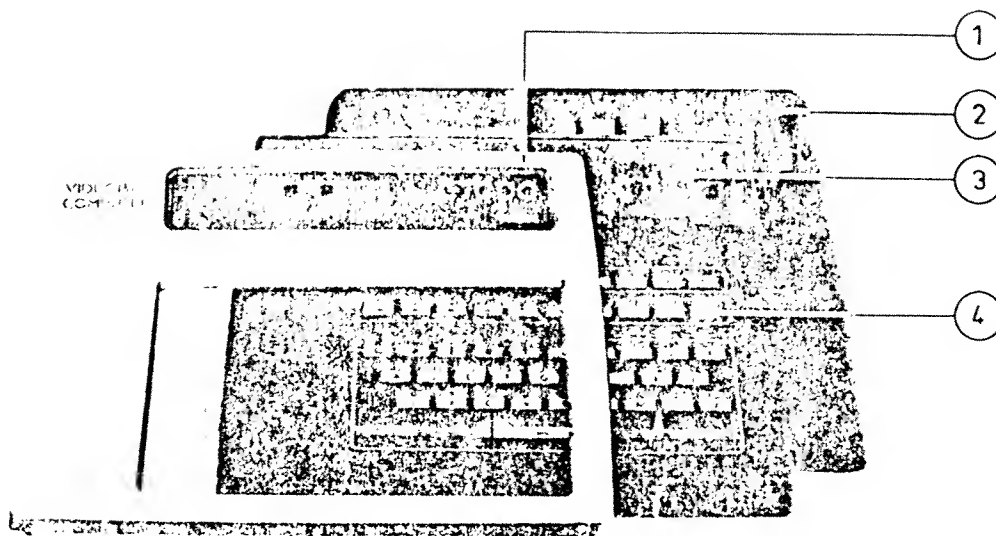




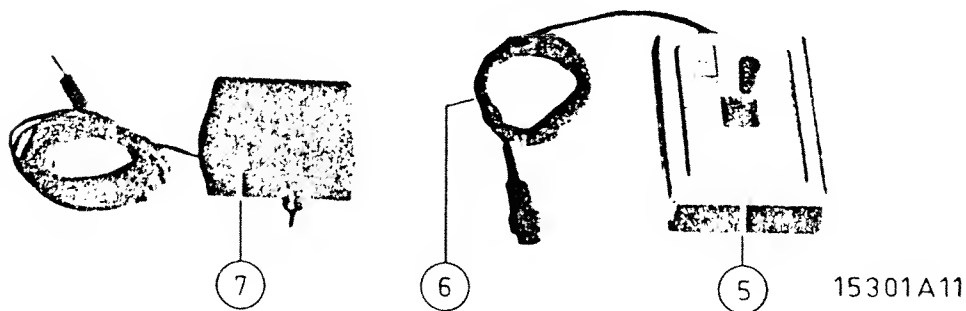




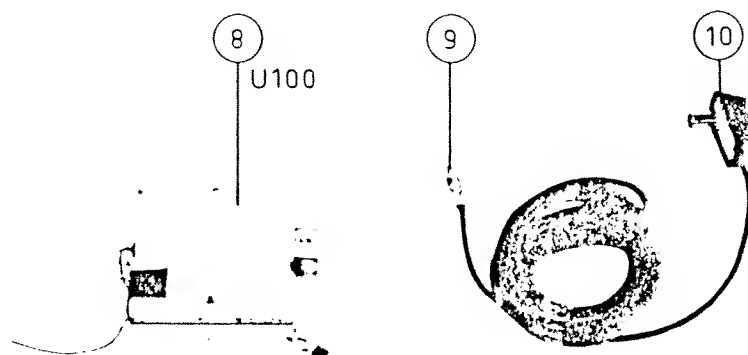




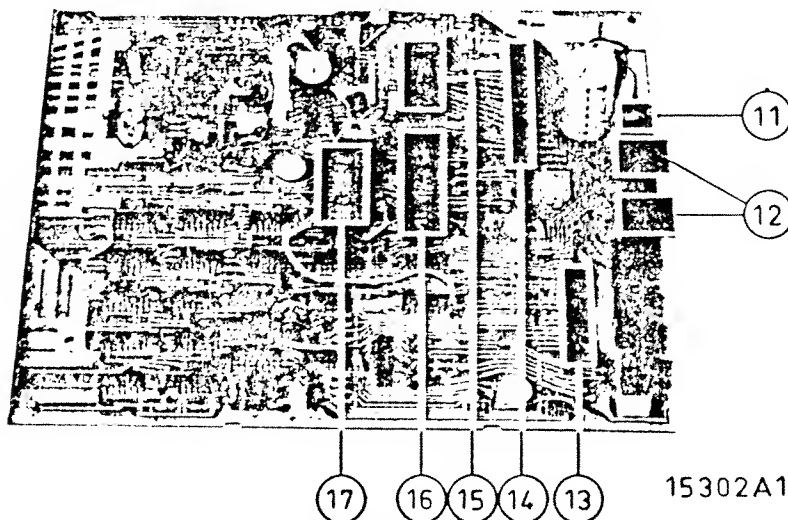
1		4822 441 80
2		4822 441 80
3		4822 441 80
4		4822 219 80
5		4822 441 80
6		4822 321
7	220 V~	4822 148 80
7	240 V~	4822 148 80
8	5.5 MHz	4822 210 50
8	6.0 MHz	4822 210 50
9		4822 264 30
10		4822 264 30
11		4822 267 30
12		4822 267 30
13		4822 265 40
14		4822 265 40
15		5322 255 40
16		5322 255 40
17		5322 255 40



15301A11









U100



15302A11



441 80282  
441 80283  
441 80284  
219 80256  
111 80285  
421 20373  
113 10026  
143 50027  
210 50085  
210 50086  
264 30039  
264 30104  
267 30304  
267 50266  
265 40137  
265 40138  
255 44171  
255 44117  
255 44047

					
D1		4822 130 30998	IC1	8048/612191 1	4822 209 8
D2		4822 130 30998	IC2	8245	4822 209 8
D3	1N4001	5322 130 30197	IC3	6810	4822 209 8
D4	1N4001	5322 130 30197	✕ IC4	74LS148	4822 209 8
D5	1N4001	5322 130 30197	IC5	74LS175	5322 209 8
D6	1N4001	5322 130 30197	IC6	74LS175	5322 209 8
D101		4822 130 31042	IC7	74LS156	4822 209 8
D102		4822 130 31055	IC8	74LS365	4822 209 8
			✕ IC9	74S86	5322 209 8
			✕ IC10	74LS74	5322 209 8
TS1		4822 130 41229	✕ IC11	74LS74	5322 209 8
TS2		4822 130 41229	✕ IC12	74S74 612223-1	5322 209 8
TS102		4822 130 41234	✕ IC13	74S74	5322 209 8
TS103		4822 130 41241	✕ IC14	74S112	5322 209 8
TS104		4822 130 41241	IC15	74LS393	4822 209 8
			✕ IC16	74LS138	5322 209 8
			✕ IC17	74LS138	5322 209 8
			✕ IC18	74LS279 612231-1	5322 209 8
C2	2-11 pF	4822 125 50095	✕ IC19	74LS00	5322 209 8
C7	10 nF	4822 122 30043	✕ IC20	74LS00	5322 209 8
C14	1 μF	4822 124 20822	IC21	74LS32	4822 209 8
C15	4700 μF	4822 124 70316	IC22	74LS32	4822 209 8
C41	10 nF	4822 122 30043	IC23	74LS32	4822 209 8
C42	47 μF	4822 124 20461	✕ IC24	74LS04	5322 209 8
C44	20 nF	4822 122 30103	✕ IC25	74LS368	4822 209 8
C50	4.7 μF	5322 124 24104	✕ IC26	74S112	5322 209 8
C59	20 nF	4822 122 30103	✕ IC27	74LS20	5322 209 8
C63	20 nF	4822 122 30103	✕ IC28	74LS02	5322 209 8
C64	20 nF	4822 122 30103	IC29	612160-3	4822 209 8
C76	20 nF	4822 122 30103	IC30	74LS365	4822 209 8
C91	10 nF	4822 122 30043	VR1	LM340-5	4822 130 4
C120	1 μF	4822 124 20822	VR2	LM340 5	4822 130 4
					
			X1	17.73 MHz	4822 242 7
R7	1 kΩ	4822 101 10232			







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NAME  
NAAM

SUPERVISOR  
VERV

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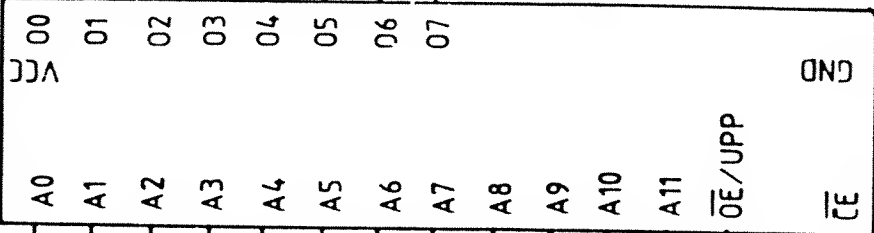
DATE  
CONTRA

DATE 83-03-28

FORM A4

+5V

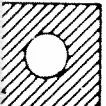
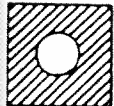
24



A B C D E F G H J K L M N P R  
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

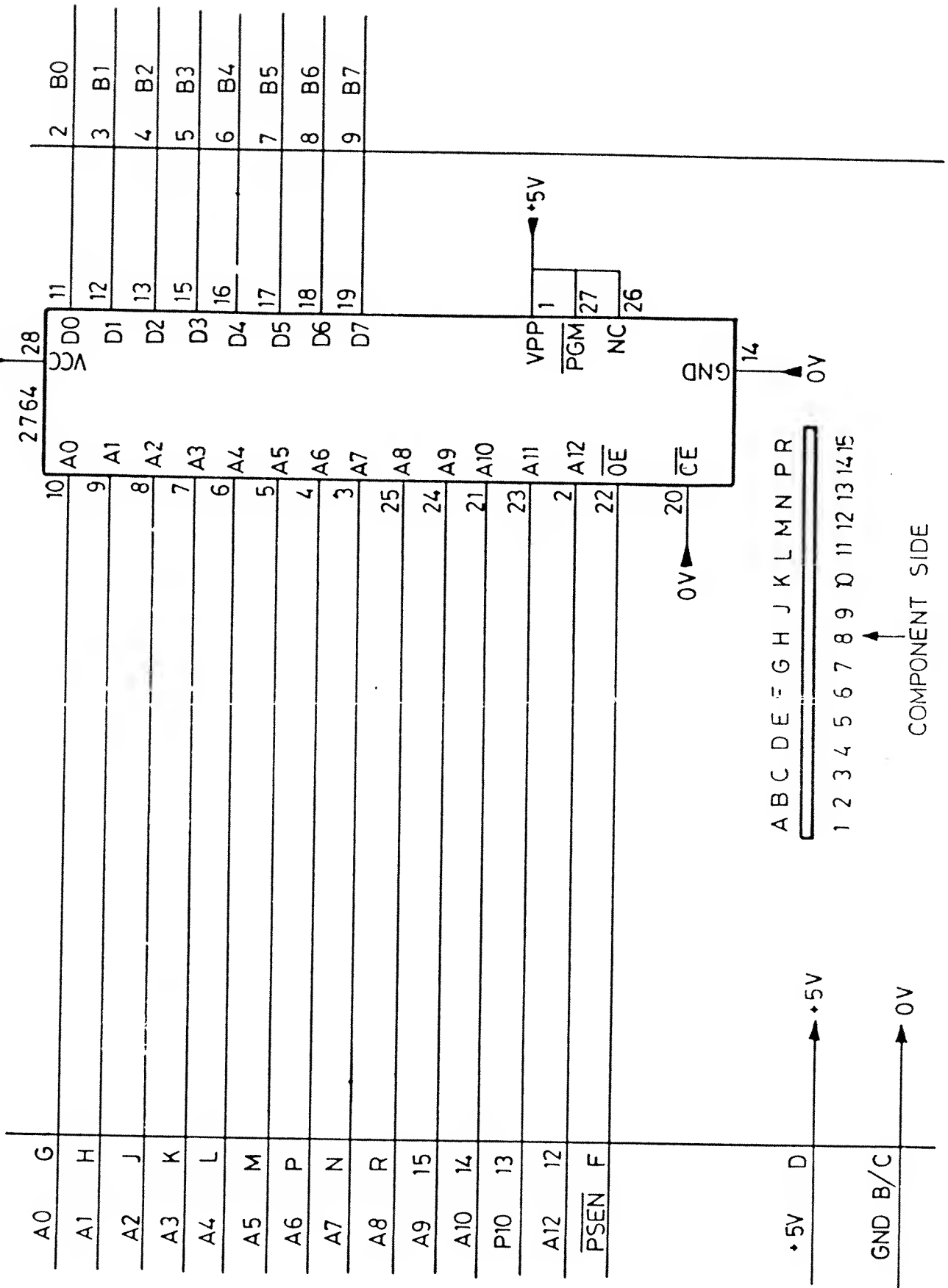
COMPONENT SIDE

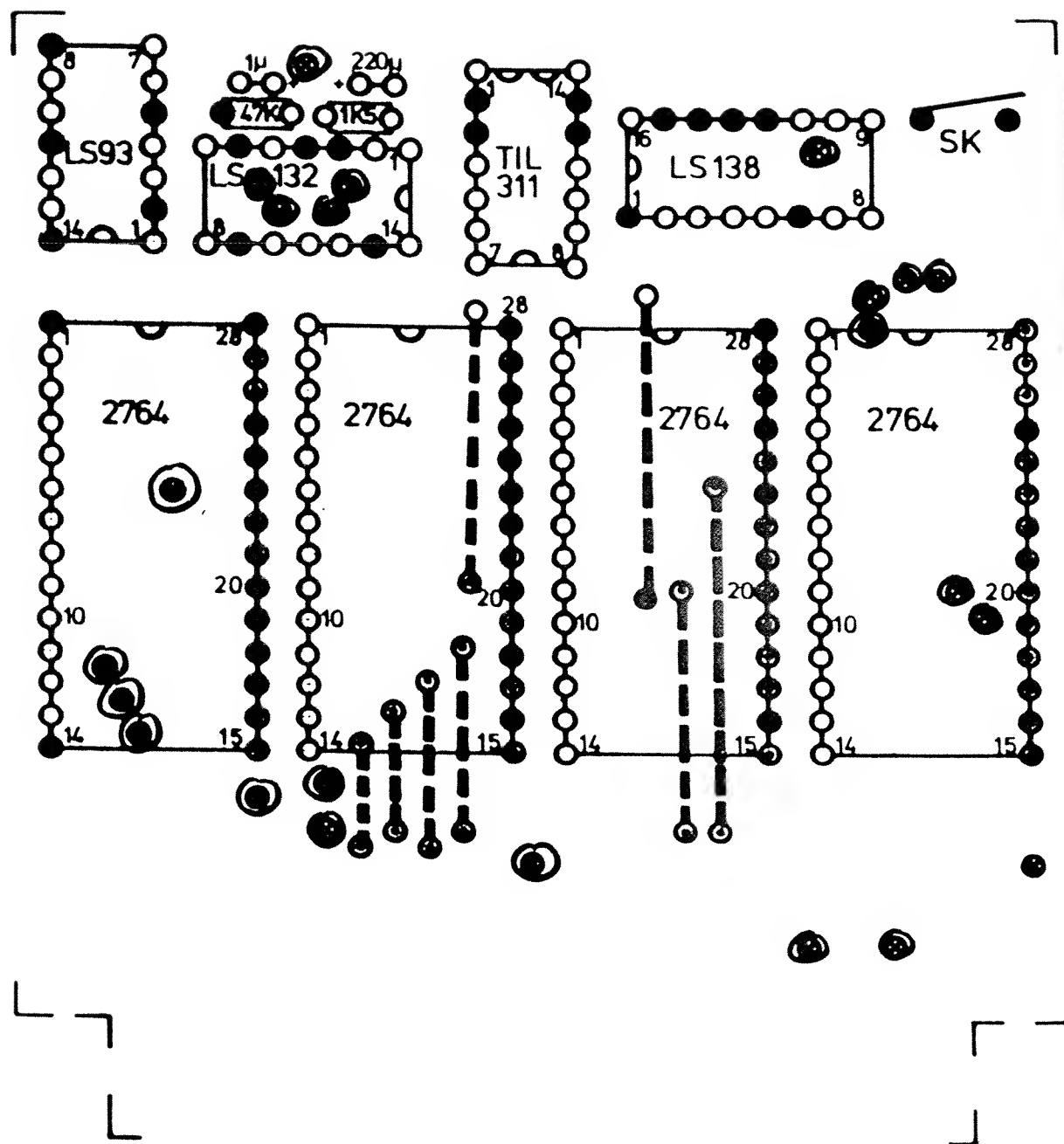
10	1	40	VCC
XTAL 1	2	39	T1
XTAL 2	3	38	P27
RESET	4	37	P26
SS	5	36	P25
INT	6	35	P24
EA	7	34	P17
RD	8	33	P16
PSEN	9	32	P15
WR	10	31	P14
ALE	11	30	P13
DB0	12	29	P12
DB1	13	28	P11
DB2	14	27	P10
DB3	15	26	VDD
DB4	16	25	PROG
DB5	17	24	P23
DB6	18	23	P22
DB7	19	22	P21
VSS	20	21	P20



NAME	
NRAM	

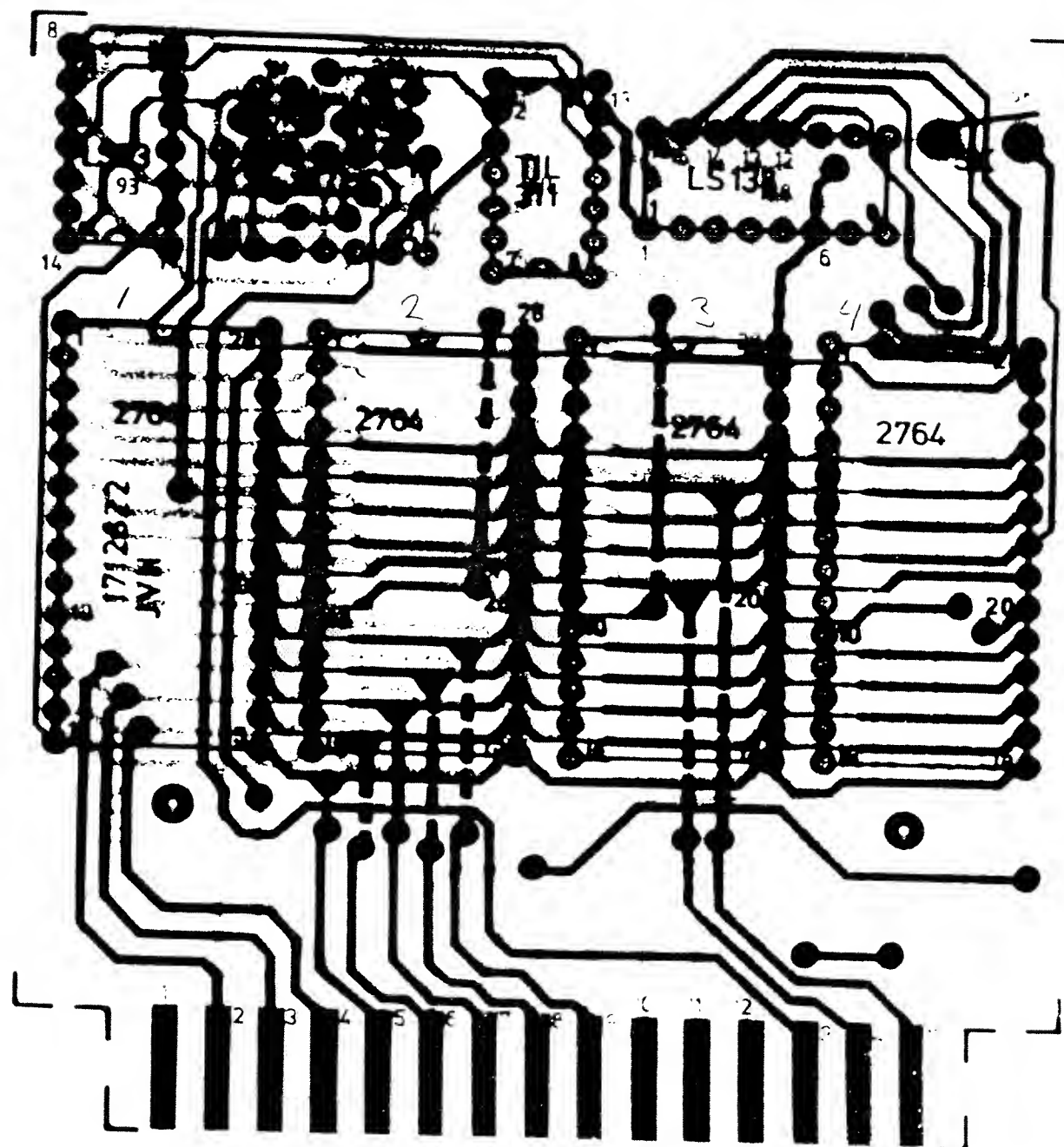
SHIPS  
VERV





- Brugdraad
- ⊙ Doorverbinding
- Gesoldeerd aan beide zijden
- ◐ Gesoldeerd aan comp zijde

SCALE 4:1



- Brugdraad
- Kart a
- Doorverbinding
- Gesoldeerd aan beide zijden
- Gesoldeerd aan comp zijde

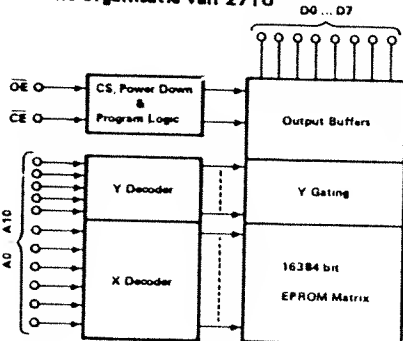
# elektuur infokaart 75

μ-computer-IC's 3

EPROM's  
gegevens

type	capaciteit
2708	1024 x 8 bits
2716	2048 x 8 bits
2732	4096 x 8 bits
2764	8192 x 8 bits
2516	2048 x 8 bits
2532	4096 x 8 bits

Interne organisatie van 2716



Aansluitingen

VCC = +5 V

VBB = -5 V

VDD = +12 V

VPP = +5 V normale werking  
+25 V bij programmeren

A<sub>0</sub> ... A<sub>n</sub> = adres-ingangen

D<sub>0</sub> ... D<sub>7</sub> = data in- en uitgangen

CS = Chip Select

CE = Chip Enable

OE = Output Enable

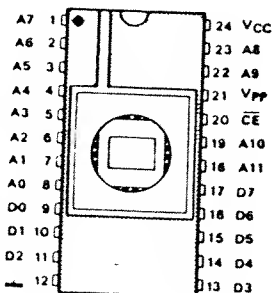
PD = Power Down

# elektuur infokaart 76

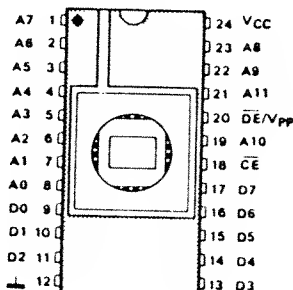
μ-computer-IC's 4

EPROM's  
aansluitingen

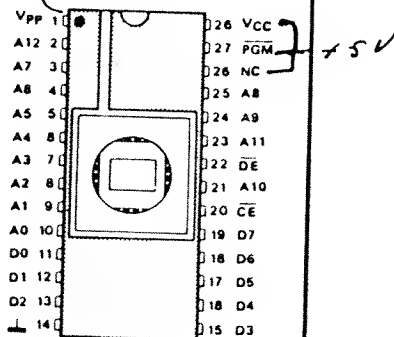
2532



2732



2764



A12 = pin 12 VAN Conn.